HW2

Due date: 04/19/2018

- 1. Durrett excercise 5.3.12
- 2. Durrett excercise 5.3.13
- 3. Durrett excercise 5.4.5
- 4. Durrett excercise 5.4.6
- 5. Suppose that $\{X_n\}$ is an integrable \mathcal{F}_n -adapted sequence such that $E(X_\tau) = E(X_0)$ for every bounded \mathcal{F}_n -stopping time τ . Show that $\{X_n\}$ must be a \mathcal{F}_n -martingale
- 6. Durrett excercise 5.5.1